

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/520,655
Source: PTI/10
Date Processed by STIC: 8/22/05

ENTERED



PCT

RAW SEQUENCE LISTING DATE: 08/22/2005
 PATENT APPLICATION: US/10/520,655 TIME: 17:05:00

Input Set : A:\PTO.KD.txt
 Output Set: N:\CRF4\08222005\J520655.raw

3 <110> APPLICANT: COMMISSARIAT A L'ENERGIE ATOMIQUE
 4 CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
 5 DIDEBERG Otto
 6 VERNET Thierry
 7 MOUZ Nicolas
 9 <120> TITLE OF INVENTION: STREPTOCOCCUS PNEUMONIAE PBP2x MINI-PROTEIN AND USES
 THEREOF.
 11 <130> FILE REFERENCE: F263FR79s
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/520,655
 C--> 14 <141> CURRENT FILING DATE: 2005-01-10
 16 <160> NUMBER OF SEQ ID NOS: 9
 18 <170> SOFTWARE: PatentIn Ver. 2.1
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 551
 22 <212> TYPE: PRT
 23 <213> ORGANISM: Streptococcus pneumoniae
 25 <400> SEQUENCE: 1
 26 Gly Ser Gly Ala Lys Arg Gly Thr Ile Tyr Asp Arg Asn Gly Val Pro
 27 1 5 10 15
 29 Ile Ala Glu Asp Ala Thr Ser Gly Gly Pro Asn Arg Ser Tyr Pro Asn
 30 20 25 30
 32 Gly Gln Phe Ala Ser Ser Phe Ile Gly Gly Gly Met Glu Ser Ser Leu
 33 35 40 45
 35 Asn Ser Ile Leu Ala Gly Gly Gly Asp Gly Lys Asp Val Tyr Thr
 36 50 55 60
 38 Thr Ile Ser Ser Pro Leu Gln Ser Phe Met Glu Thr Gln Met Asp Ala
 39 65 70 75 80
 41 Phe Gln Glu Lys Val Lys Gly Lys Tyr Met Thr Ala Thr Leu Val Ser
 42 85 90 95
 44 Ala Lys Thr Gly Glu Ile Leu Ala Thr Thr Gln Arg Pro Thr Phe Asp
 45 100 105 110
 47 Ala Asp Thr Lys Glu Gly Ile Thr Glu Asp Phe Val Trp Arg Asp Ile
 48 115 120 125
 50 Leu Tyr Gln Ser Asn Tyr Glu Pro Gly Ser Thr Met Lys Val Met Met
 51 130 135 140
 53 Leu Ala Ala Ala Ile Asp Asn Asn Thr Phe Pro Gly Gly Glu Val Phe
 54 145 150 155 160
 56 Asn Ser Ser Glu Leu Lys Ile Ala Asp Ala Thr Ile Arg Asp Trp Asp
 57 165 170 175
 59 Val Asn Glu Gly Leu Thr Gly Gly Arg Thr Met Thr Phe Ser Gln Gly
 60 180 185 190
 62 Phe Ala His Ser Ser Asn Val Gly Met Thr Leu Leu Glu Gln Lys Met
 63 195 200 205
 65 Gly Asp Ala Thr Trp Leu Asp Tyr Leu Asn Arg Phe Lys Phe Gly Val

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66      210          215          220
68 Pro Thr Arg Phe Gly Leu Thr Asp Glu Tyr Ala Gly Gln Leu Pro Ala
69 225          230          235          240
71 Asp Asn Ile Val Asn Ile Ala Gln Ser Ser Phe Gly Gln Gly Ile Ser
72          245          250          255
74 Val Thr Gln Thr Gln Met Ile Arg Ala Phe Thr Ala Ile Ala Asn Asp
75          260          265          270
77 Gly Val Met Leu Glu Pro Lys Phe Ile Ser Ala Ile Tyr Asp Pro Asn
78          275          280          285
80 Asp Gln Thr Ala Arg Lys Ser Gln Lys Glu Ile Val Gly Asn Pro Val
81          290          295          300
83 Ser Lys Asp Ala Ala Ser Leu Thr Arg Thr Asn Met Val Leu Val Gly
84 305          310          315          320
86 Thr Asp Pro Val Tyr Gly Thr Met Tyr Asn His Ser Thr Gly Lys Pro
87          325          330          335
89 Thr Val Thr Val Pro Gly Gln Asn Val Ala Leu Lys Ser Gly Thr Ala
90          340          345          350
92 Gln Ile Ala Asp Glu Lys Asn Gly Gly Tyr Leu Val Gly Leu Thr Asp
93          355          360          365
95 Tyr Ile Phe Ser Ala Val Ser Met Ser Pro Ala Glu Asn Pro Asp Phe
96          370          375          380
98 Ile Leu Tyr Val Thr Val Gln Gln Pro Glu His Tyr Ser Gly Ile Gln
99 385          390          395          400
101 Leu Gly Glu Phe Ala Asn Pro Ile Leu Glu Arg Ala Ser Ala Met Lys
102          405          410          415
104 Asp Ser Leu Asn Leu Gln Thr Thr Ala Lys Ala Leu Glu Gln Val Ser
105          420          425          430
107 Gln Gln Ser Pro Tyr Pro Met Pro Ser Val Lys Asp Ile Ser Pro Gly
108          435          440          445
110 Asp Leu Ala Glu Glu Leu Arg Arg Asn Leu Val Gln Pro Ile Val Val
111          450          455          460
113 Gly Thr Gly Thr Lys Ile Lys Asn Ser Ser Ala Glu Glu Gly Lys Asn
114 465          470          475          480
116 Leu Ala Pro Asn Gln Gln Val Leu Ile Leu Ser Asp Lys Ala Glu Glu
117          485          490          495
119 Val Pro Asp Met Tyr Gly Trp Thr Lys Glu Thr Ala Glu Thr Leu Ala
120          500          505          510
122 Lys Trp Leu Asn Ile Glu Leu Glu Phe Gln Gly Ser Gly Ser Thr Val
123          515          520          525
126 Gln Lys Gln Asp Val Arg Ala Asn Thr Ala Ile Lys Asp Ile Lys Lys
127          530          535          540
129 Ile Thr Leu Thr Leu Gly Asp
130 545          550
134 <210> SEQ ID NO: 2
135 <211> LENGTH: 46
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Description of the artificial sequence:primer

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142 <400> SEQUENCE: 2
143 gtcgacttag tctcctaaag ttaatttaat tttttaatg tttttg 46
146 <210> SEQ ID NO: 3
147 <211> LENGTH: 21
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Description of the artificial sequence:primer
154 <400> SEQUENCE: 3
155 ggatccggga caggcactcg c 21
158 <210> SEQ ID NO: 4
159 <211> LENGTH: 43
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Description of the artificial sequence:primer
166 <400> SEQUENCE: 4
167 cataaatagt cccacgttg gccccggatc cacgcggAAC cag 43
170 <210> SEQ ID NO: 5
171 <211> LENGTH: 51
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Description of the artificial sequence:primer
178 <400> SEQUENCE: 5
179 gtttggtaa ctacgattgg gacctccaga ggttgcattcc tcagcaatcg g 51
182 <210> SEQ ID NO: 6
183 <211> LENGTH: 48
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Description of the artificial sequence:primer
190 <400> SEQUENCE: 6
191 gttcaaggaa ctctccattc caccggcgat aaaactagaa gcaaatttg 48
194 <210> SEQ ID NO: 7
195 <211> LENGTH: 49
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Description of the artificial sequence:primer
202 <400> SEQUENCE: 7
203 tgtataaaca tccttaccgt ccccacctcc ccctgcaaga atactgttc 49
206 <210> SEQ ID NO: 8
207 <211> LENGTH: 30
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Description of the artificial sequence:primer
214 <400> SEQUENCE: 8

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215 ccgcataatgg ccaaacctgg gactatttat 30
218 <210> SEQ ID NO: 9
219 <211> LENGTH: 32
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Description of the artificial sequence: primer
226 <400> SEQUENCE: 9
227 ggctcgagtt agtctcctaa agttaatgtat 32

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/520,655

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L:13 M:270 C: Current Application Number differs, Replaced Application Number

L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date